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TITLE : FILTRATION METHOD OF MOLTEN AL OR AL ALLOY

ABSTRACT : PURPOSE: To extend the life of an expensive filter by adding a crystal grain size micronizing agent to molten metal in between a first and second stage of a refractory porous filter and filtering.

CONSTITUTION: Molten Al or Al alloy is filtered by using a filter prior to casting. In this case, a refractory porous filter is fitted in two stages. A crystal grain size micronizing agent is added to molten metal in between the first porous filter and second porous filter to filter the molten metal. Also, when each filtration is executed by two stage filters, each molten metal is oxidized to form Al oxide in molten metal and is filtered, at the early stage of filtration, an oxide film is formed on the filtration front side of each filter, a removing efficiency of the inclusions in molten metal is improved. By this method, the adverse impact due to adding a crystal grain micronizing agent is suppressed to a minimum.

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